

2016 Post Election Voting Equipment Audit



INFORMATION AND TRAINING PRESENTATION

Overview of Process



- Over 100 reporting units selected at random on 11/11/2016
- At least 5 reporting units for each piece of voting equipment
- Report to WEC if a reporting unit has been selected that has zero voters
- Reporting units subject to recount may be excluded from the process

Before You Get Started

1. ACKNOWLEDGE RECEIPT OF SELECTION
TO WEC
2. GATHER MATERIALS
3. POST NOTICE
4. PROVIDE NOTICE TO WEC

Acknowledge Receipt of Selection

All selected municipalities shall confirm the following information with the WEC:

- Voting system type
- Voting equipment model
- Accessible voting equipment model

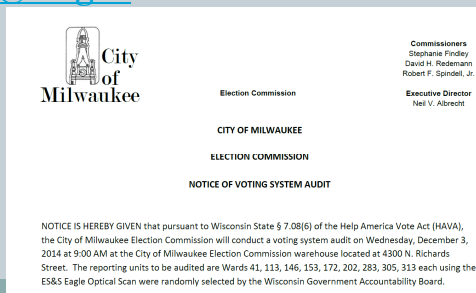
Materials

Work with your County Clerk to secure the following materials:

- Poll Lists
- Inspector's Statements (EL-104)
- Tally Sheets (EL-105)
- Ballots
- Voting equipment results tapes or reports
- Other related election materials

Public Notice

- Audit process is open to public inspection
- Notice should be published at least 48 hours prior to audit
- Copy of the notice should be sent to WEC by email at wecaudits@wi.gov



General Procedures



Four Contests for Audit

The contests selected for the 2016 Post Election Voting Equipment Audit are:

1. President
2. Representative to Congress
3. Representative to Assembly
4. District Attorney

Overview of Procedures

- A minimum of 2 individuals must participate in the audit
- Votes are tallied by hand for all contests included in the audit
- At least 2 auditors must tally the votes individually then compare the totals
- For DRE systems (AVC Edge, iVotronic, Accuvote TSX) the voter-verified paper audit trail will be used to tally votes

Overview of Procedures (cont.)

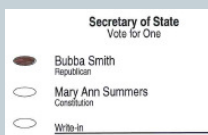
- If the totals from the auditors individual tally sheets match, compare the totals to the machine tape



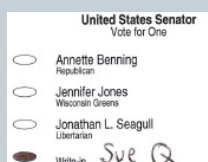
- If the totals do not match, the discrepancies should be investigated and noted in the minutes of the audit

Counting Votes

- Votes should only be counted as the voting equipment would have counted them



Properly marked ballot = count the vote

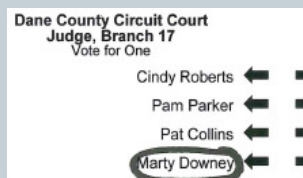
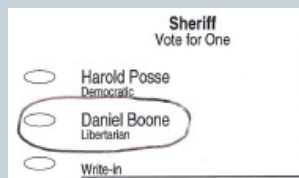


Properly marked write-in = count the vote

Votes Not Counted

- Even if voter intent can reasonably be determined, votes that are not marked correctly should not be counted

Example: A voter circled a candidate name when they should have filled in the oval or connected the arrow. No vote for this office should be counted. The voting equipment would not have counted a vote cast for the candidate.



Examples of Votes Not Counted



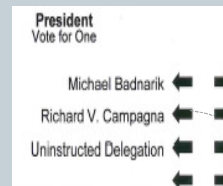
Voter used a highlighter to mark their ballot
= vote not counted



Voter crossed out original choice with an 'X' and marked a second candidate = no vote counted. Overvotes are not counted and would be considered an undervote for that contest.

Unsure of how the voting equipment would have treated a vote?

- In some cases, it may not be clear how the ballot would have been counted by the voting equipment.
- Document the ballots with ambiguous marks in the meeting minutes.
- Include in the minutes how the auditors counted the ambiguous ballot and all reasonable alternatives on how the machine may have counted the ballot.

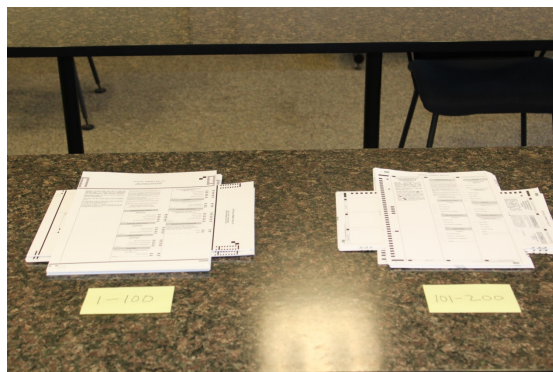


Example

Example: The voter marked both Richard Clark and Joe Schmoe and attempted to erase the mark for Richard Clark. The election inspectors counted it as a vote for Joe Schmoe, but the machine may have read this as an overvote in this contest. This may result in having one more vote for Joe Schmoe and one less undervote in this contest.

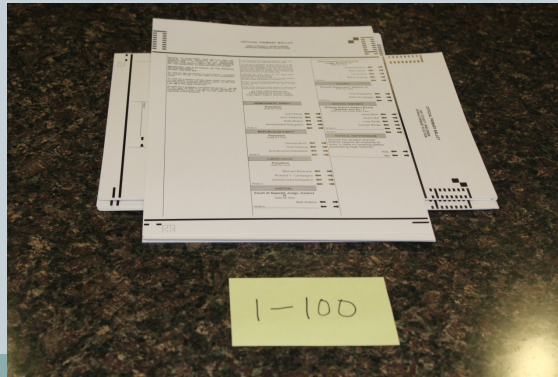


Recommended Audit Procedures



Set Up

- Count out ballots into sets of 100
- Label stacks (1-100, 101-200, etc.)
- Organize stacks of 100 into groups of 20 ballots

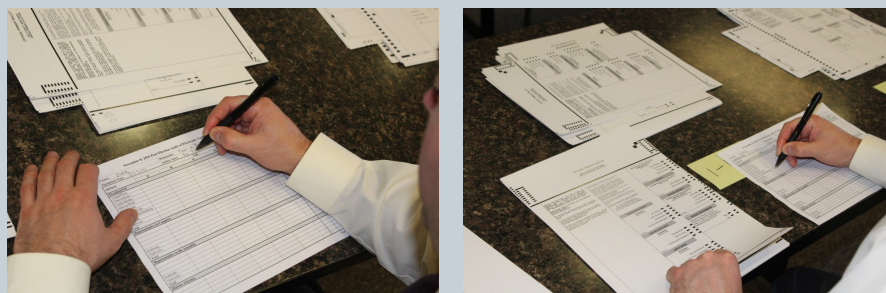


Overview

1. 2 people review each ballot
2. Auditors rotate the ballot stacks between them
3. Keep stacks in order to allow auditors to easily locate discrepancies

Tallying Votes:

Using the Tally Sheet



Tally Votes: Step 1

- Use the tally sheet to record the number of votes for each candidate in the audited contests

County: Dane		Municipality:
Equipment Type: DS200		Auditor Name:
OFFICE	20	40
President/VP		
Doe/Smith	HHH HHH II	HHH III
Anderson/Brown	HHH	HHH HHH
Scattering		
Undervotes	III	II
Total	20	20
Contest 2		
Scattering		
Undervotes		
Total		
Contest 3		

Step 1: Tally votes for each candidate and any scattering or undervotes. Tally votes for each group of 20 ballots in the stack of 100.

Tally Votes: Step 2

- Record the total number of votes for each group of 20 ballots

pe: DS200		Auditor Name: Aaron Auditor	
E	Tally		
	20	40	60
vn	III III II	III III	III III
	III	III III	III III
	III	II	
	20	20	20
<div>Step 2: Record the total number of votes for each candidate, scattering and undervotes for each group of 20 ballots.</div>			

Tally Votes: Step 3

- Total the votes across each row to get a subtotal for each candidate, scattering and undervotes for each stack of 100 ballots. Enter the row totals in the ST column.

Tally					
20	40	60	80	100	ST
III III II	III III	III III	III III	III III I →	51
III	III III	III III	III III	III →	38
				II →	2
III	II			III →	9
20	20	20	20	20	100

Step 3: Total the votes across each row to get a subtotal (ST) of votes for each candidate, scattering and undervotes.

Tally Votes: Step 4

- Record hand count audit totals in the 'Audit' column
- Record the electronic voting machine tape totals in the 'EVM' column
- Record the difference between the audit and machine tape totals in the variance (Var.) column
- This portion of the tally is only done once at the end of audit process

Tally Totals		
Audit	EVM	Var.
51	50	1
38	38	0
2	2	0
9	9	0
100	99	1

Step 4: Record the tally subtotals in the Audit column and the machine tape totals in the EVM column. Record the difference between the Audit and EVM column in the variance (Var.) column.

Auditors Jointly

- Compare both sets of individual tallies for each contest
- Identify any discrepancies between the two sets of tally sheets
 - ✦ Recount sub-group of 20 where discrepancies may exist
- After discrepancies are reconciled, add the stack totals together to get a total number of votes for each contest

Auditors Jointly (cont.)

- Compare audit totals to the EVM total
- If totals match, record on the reporting form
- If not, review the minutes to check for ambiguously marked ballots
- If no explanation is available, calculate the difference and error rate in the vote totals on the reporting form

2016 Post-Election Electronic Voting Equipment Audit Reporting Form

1. MUNICIPALITY:
2. COUNTY:
3. CONTACT PERSON & PHONE:
4. DATE(S) of AUDIT:
5. VOTING SYSTEM DESCRIPTION (VENDOR, MODEL NAME, NUMBER):
6. VERSION NUMBER:
7. VOTING DEVICE SERIAL NUMBER:
8. MEMORY CARD SERIAL NUMBER:
9. PERSONS CONDUCTING AUDIT:
10. DATE OF ELECTION: 11/8/2016
11. TOTAL NUMBER OF VOTERS:
12. NUMBER OF BALLOTS CAST BY EQUIPMENT TYPE (Optical Scan DRE):

Office	President		Congress		Assembly		District Attorney	
	Machine	Hand	Machine	Hand	Machine	Hand	Machine	Hand
# of Votes								
Undervotes								
Difference								
Error Rate		%		%		%		%

Calculating the Error Rate

- Note any differences between hand-count audit tally and machine-generated tally.
- Divide the difference between the hand-count audit tally and machine-generated tally by the total number of votes cast for that contest.
- Multiply this number by 100 to determine the error rate

Machine Count	Hand Count	Difference	Total Votes	Error Rate
495	500	5	500	1%

Example: $5 / 500 = 0.01 \times 100 = 1\%$ Error Rate

Post-Audit

- Submit materials to WEC at wecaudits@wi.gov
 - ✦ Reporting forms
 - ✦ Tally sheets
- Describe any discrepancies on reporting form
- WEC may request all audit materials, including ballots, poll lists, etc.
- Submit reimbursement request
 - ✦ Up to \$300 per reporting unit
 - ✦ List auditors, hours worked and pay rate (not to exceed \$10/hr)
 - ✦ Itemize any other expenses

Deadline

- 2 weeks after WEC certifies the election results
- **Last day that certification can occur is 12/1/2016 which would set the audit deadline as 12/15/2016.**
- We anticipate certifying the results before 12/1 but we will not adjust the due date for the audit.
- Contact the WEC if you do not feel you can complete the audit by the deadline.

Questions



Good Luck!

